

# ORDER FOR SUPPLIES OR SERVICES

PAGE OF PAGES

1 2

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

1. DATE OF ORDER 08/21/2018		2. CONTRACT NO. (If any) EP-C-17-046		6. SHIP TO: a. NAME OF CONSIGNEE Region 10	
3. ORDER NO. 68HE0C18F0845		4. REQUISITION/REFERENCE NO. PR-R0-18-00235		b. STREET ADDRESS US Environmental Protection Agency 1200 Sixth Avenue, Suite 900	
5. ISSUING OFFICE (Address correspondence to) CPOD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001				c. CITY Seattle	e. ZIP CODE 98101
7. TO: George Townsend				f. SHIP VIA	
a. NAME OF CONTRACTOR TETRA TECH, INC.				8. TYPE OF ORDER	
b. COMPANY NAME				<input type="checkbox"/> a. PURCHASE <input checked="" type="checkbox"/> b. DELIVERY Except for billing instructions on the reverse, this delivery order is subject to instructions contained on this side only of this form and is issued subject to the terms and conditions of the above-numbered contract.	
c. STREET ADDRESS 10306 EATON PL STE 340				REFERENCE YOUR:	
d. CITY FAIRFAX				e. STATE VA	f. ZIP CODE 22030
9. ACCOUNTING AND APPROPRIATION DATA See Schedule				10. REQUISITIONING OFFICE CPOD	
11. BUSINESS CLASSIFICATION (Check appropriate box(es)) <input type="checkbox"/> a. SMALL <input checked="" type="checkbox"/> b. OTHER THAN SMALL <input type="checkbox"/> c. DISADVANTAGED <input type="checkbox"/> d. WOMEN-OWNED <input type="checkbox"/> e. HUBZone <input type="checkbox"/> f. SERVICE-DISABLED VETERAN-OWNED <input type="checkbox"/> g. WOMEN-OWNED SMALL BUSINESS (WOSB) ELIGIBLE UNDER THE WOSB PROGRAM <input type="checkbox"/> h. EDWOSB					12. F.O.B. POINT

13. PLACE OF a. INSPECTION Destination		b. ACCEPTANCE Destination	14. GOVERNMENT B/L NO.	15. DELIVER TO F.O.B. POINT ON OR BEFORE (Date) 365 Days After Award	16. DISCOUNT TERMS
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## 17. SCHEDULE (See reverse for Rejections)

ITEM NO. (a)	SUPPLIES OR SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
	DUNS Number: 198549560 AWARD NUMBER: EP-C-17-046 Technical Support for TMDL - Related and Nonpoint Source Work in EPA Region 10  TOCOR: Jayne Carlin Max Expire Date: Continued ...					

SEE BILLING INSTRUCTIONS ON REVERSE	18. SHIPPING POINT		19. GROSS SHIPPING WEIGHT		20. INVOICE NO.		17(h) TOTAL (Cont. pages)
	21. MAIL INVOICE TO:						
	a. NAME RTP Finance Center						\$158,791.00
	b. STREET ADDRESS (or P.O. Box) US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts						\$158,791.00
c. CITY Durham			d. STATE NC	e. ZIP CODE 27711			17(i) GRAND TOTAL

22. UNITED STATES OF  
AMERICA BY (Signature)

23. NAME (Typed)  
Angela Lower  
TITLE: CONTRACTING/ORDERING OFFICER

**ORDER FOR SUPPLIES OR SERVICES**  
**SCHEDULE - CONTINUATION**

PAGE NO

2

**IMPORTANT:** Mark all packages and papers with contract and/or order numbers.

DATE OF ORDER

CONTRACT NO.

ORDER NO.

08/21/2018

EP-C-17-046

68HE0C18F0845

ITEM NO. (a)	SUPPLIES/SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
0001	<p>08/15/2020 Invoice Approver: Jayne Carlin Alt Invoice App: Jayshika Ramrakha Admin Office: CPOD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: NWD Cincinnati OH 45268 Period of Performance: 08/21/2018 to 08/15/2019</p> <p>Base Period - Technical Support for TMDL - Related &amp; Nonpoint Source Work in EPA Region 10 in accordance with the attached PWS.</p> <p>Accounting Info: 18-19-B-87FT-000BD4-2505-1887TE8022-00 1 BFY: 18 EFY: 19 Fund: B Budget Org: 87FT Program (PRC): 000BD4 Budget (BOC): 2505 DCN - Line ID: 1887TE8022-001 Funding Flag: Complete Funded: \$158,791.00</p>				158,791.00	
0002	<p>Option Period 1 - Technical Support for TMDL - Related &amp; Nonpoint Source Work in EPA Region 10 in accordance with the attached PWS.</p> <p>(Option Line Item) 07/01/2019</p>				Option	

TOTAL CARRIED FORWARD TO 1ST PAGE (ITEM 17(H))

\$158,791.00

**PERFORMANCE WORK STATEMENT  
TETRA TECH EP-C-17-046, TASK ORDER  
PR-R0-18-00235**

**TITLE: Technical Support for TMDLs Related to Litigation in EPA Region 10**

**BACKGROUND:**

Section 303(d) of the Clean Water Act (CWA) requires States and Tribes to develop lists of waters that do not meet water quality standards, even after point sources of pollution have installed the minimum required levels of pollution control technology. Current EPA regulations specify that these lists are developed every two years. The CWA also requires that States and Tribes develop Total Maximum Daily Loads (TMDLs) to bring 303(d) listed waters back into compliance with the water quality standards (WQS) for waters on the CWA Section 303(d) lists. TMDLs are watershed scale water quality and pollutant source analyses that determine the amounts of pollution that streams could receive and still meet applicable water quality standards. A TMDL identifies and quantifies sources of pollution causing water quality standard exceedances. The quantification is done by estimating the pollutant load from each source. These loads are then used to determine the amount of reductions needed to meet water quality standards. TMDLs are implemented through the point source programs (i.e. NPDES) and nonpoint source pollution control programs. Generally, EPA's role is to provide information and assistance to states to support the TMDL development and implementation; however, in some cases, EPA will take the lead in developing TMDLs or portions of the TMDLs.

The TMDL Program is in a period of transition nationwide as the lawsuits, especially in EPA Region 10, move from failure, to develop TMDLs, to the content of the TMDL. This task order will support EPA in advancing the TMDL development and implementation to address litigation requirements or anticipated litigation requirements. Recent litigation requires tight deadlines. For example, the court order requires EPA to revise the Klamath TMDL to address temperature impairments and the Willamette River TMDL to address the mercury impairment by April 2019. This task order will provide additional support for follow-on projects started in Tetra Tech EP-C-17-046 Task Order 0001, but which could not be completed under that task order due to limits to the capacity in the base period and optional periods. Projects could include Alaska TMDLs, Oregon temperature TMDLs, Klamath Oregon temperature TMDLs, Willamette Oregon Mercury TMDLs and Columbia River TMDL modeling. EPA has appealed the court's April 2019 deadline for EPA to revise other existing temperature TMDLs in Oregon and is waiting for the court's response. Included is an optional period in case the court orders a shorter timeframe for EPA to complete these TMDLs that would require work to begin during the timeframe under this PWS and for additional work that may be needed to be completed for the projects described above. This task order is for a base period of one year and one one-year option period.

**LEVEL OF EFFORT:**

Base Period:	1500 hours
Option Period:	1500 hours

**TASKS:**

After task order (TO) award and initiation of Task 1, the Task Order Contracting Officer Representative (TOCOR) shall furnish technical direction (TD) in accordance with EPAAR 1552.237-71 TECHNICAL DIRECTION on a case-by-case basis. The Contractor shall anticipate working with the TOCOR and EPA/state technical staff; however, TOCOR, the EPA Alternate TOCOR (if the TOCOR is on leave or travel), the EPA Contract Level Contracting Officer

Representative (CL-COR) and the EPA Contracting Officer (CO) are the only individuals authorized to issue technical direction. Other government personnel may engage in technical communications with the contractor, but are not authorized to give technical direction.

### **Task 1: Kickoff Meeting, Reporting and Communication**

The Contractor shall participate in a Kickoff Meeting with the TOCOR via conference call at the beginning of each option period and new project in which the TOCOR intends to issue a TD. The Kickoff Meeting with the TOCOR shall cover the following topics: points of contact, roles and responsibilities, quality assurance protocols, timelines, the schedule of benchmarks, milestones and deliverables, establish dates and times for monthly calls and monthly technical progress reports and general TO administrative information.

The TOCOR shall coordinate and set-up calls between EPA staff and the Contractor's technical lead to discuss the status and progress of the work under this TO as appropriate. Unless told otherwise by the TOCOR, the Contractor shall provide meeting summaries after the calls within five (5) business days in draft form for the TOCOR to review. The TOCOR shall provide any edits and/or comments on each meeting summary or approve the meeting summary without change; then the final written meeting summary shall be provided within five (5) business days after receipt of comments from the TOCOR.

The Contractor shall notify the EPA TOCOR of any problems, delays or questions as soon as they arise, including immediate notification of any quality assurance issues and project delays. The Contractor shall provide a monthly progress report in accordance with contract requirements, which will be used for invoice review purposes. The Contractor shall provide additional monthly reports that includes the funding status for each project under this task order and Contractor's technical lead for each project. All reporting shall be provided in accordance with the contract sections G & H:

#### ***Reporting and Deliverables (General Performance).***

See Contract Level Quality Assurance Surveillance Plan for specific performance standards and indicators related to this task. All written materials must be compliant with Section 508 of the Americans with Disabilities Act.

### **Task 2: Water Quality Investigations and TMDL Development**

The Contractor shall provide technical support for water quality investigations and the development and implementation of TMDLs for the waterbodies identified by the EPA TOCOR and that are located in Alaska, Idaho, Washington and Oregon. The Contractor shall provide support through one or more of the below activities (written technical direction will be used to clarify work):

- Conduct water quality investigations that could lead to TMDL development, listing or delisting of waters.
- Collect data, conduct data analysis, complete assessment and conduct modeling to support TMDL development.
- Review, extract, process and summarize relevant literature and data. Gather and evaluate existing data from public and private sources. Make recommendations on collection of new data to fill data gaps.
- Develop TMDLs or portions of TMDLs including establishing numeric TMDL targets or surrogate targets, assessing existing conditions, conducting source analysis and analytical linkages between elements, estimating existing loads, loading capacity and allocations, allocating loads among the sources of the pollutant and determining actions needed to address key sources, translating load allocations into daily loads using load duration curves and other methods, prepare responses to public comments on technical portions of the TMDLs, developing



other essential components of TMDLs including reasonable assurance, seasonal variation and critical conditions.

- Conduct independent peer review of aspects of the TMDL.
- Make recommendations for implementing TMDLs and monitoring towards the impaired waters to meet water quality standards. Develop or modify TMDL implementation plans that meet both TMDL requirements and requirements for nonpoint source (NPS) watershed based plans listed in *Nonpoint Source Program and Grants Guidelines for States and Territories* (April 13, 2013).
- Provide support to EPA and its Region 10 states in developing implementation-ready TMDLs that would more readily lead to implementation and thus, water quality standards (WQS) attainment.
- Support outreach to and coordination with public and private stakeholders and other agencies and groups to obtain information and build support for TMDLs including webinar, meeting and workshop support. This could include the development of success stories and other communication supporting the TMDLs or alternatives.

#### **SCHEDULE OF BENCHMARKS, DELIVERABLES & MILESTONES:**

Deliverables and deliverable schedule shall be clarified in the final TD, developed by the TOCOR. The Contractor shall accept or provide comments of each TD in writing within five working days from receipt of each TD. The Contractor shall schedule the conference call to discuss deliverables and project details within five (5) working days of receipt of the draft TD as appropriate. The Contractor shall document the outcomes of this meeting and provide a copy to the TOCOR. The Contractor shall provide the draft written deliverable(s) for review by TOCOR and these deliverables shall be prepared in accordance with the timeframe specified in the Technical Direction to be developed by the TOCOR. The Contractor shall provide the final written deliverable(s) shall be furnished in accordance with the timeframe specified in the Technical Direction.

<b>TASK</b>	<b>DELIVERABLE</b>	<b>SCHEDULE</b>
	<b>Base Period</b>	
<b>1</b>	Kickoff call summaries	Within 10 working days of Task Order Award and 5 working days after receipt of draft TD by TOCOR.
<b>1</b>	Conference calls and meeting summaries	Draft within 5 business days Final within 5 business days after receipt of comments from the TOCOR
<b>1</b>	Progress Reports & Funding Status Reports by Project	Per contract requirements
<b>2</b>	Comments on draft Technical Direction (TD) provided by TOCOR including estimated hours.	Within 5 business days after receipt of TD or TD clarification call.
<b>2</b>	Conduct activities and provide deliverables in accordance with TD.	In accordance with schedule outlined in TD.
	<b>Option Period 1</b>	
<b>1</b>	Kickoff meeting summaries	Within 10 working days of beginning of Option Period 1 and 5 working days after receipt of draft TD by TOCOR.

1	Conference calls and meeting summaries	Draft within 5 business days Final within 5 business days after receipt of comments from the TOCOR
1	Progress Reports & Funding Status Reports by Project	Per contract requirements
2	Comments on draft Technical Direction (TD) provided by TOCOR including estimated hours.	Within 5 business days after receipt of TD or TD clarification call.
2	Conduct activities and provide deliverables in accordance with TD.	In accordance with schedule outlined in TD.

The Contractor shall participate in meetings and conference calls arranged by the TOCOR.

The Contractor shall, when requested by the TOCOR, provide supporting documentation when EPA is reviewing draft deliverables to facilitate EPA review and approval of the Contractor's work. Documentation shall include the electronic files and detailed, written explanation of all steps and decisions. The Contractor is expected to comply with this request when it is received from the TOCOR regardless of whether such a request is described in the individual tasks of this PWS or by technical direction. The Contractor is expected to furnish this information in such manner that no proprietary software will be needed for EPA to read, interpret, replicate or model any work product of this agreement, unless otherwise noted in this PWS or by written permission of the TOCOR. The objective is that anyone with the appropriate skill level can use the information produced under this Task Order to check or duplicate the Contractor's work for replication and/or verification. With this understanding of how this Task Order's data will be used, any elements essential to successfully replicating analysis shall be provided to EPA in a commonly-used format.

The Contractor shall provide both scientific/technical and editorial review as defined in section 2.6 of the Prime Contract Performance Work Statement on any Task Order **draft** product before submission to the TOCOR for review. This process does not need to be performed by an independent peer reviewer. It is expected that all editorial review comments will be addressed before deliverables are furnished to the TOCOR for review (in the case of draft deliverables) or acceptance (in the case of final deliverables) and that questions raised by scientific/ technical review will be either addressed or discussed with the TOCOR prior to the Contractor furnishing draft deliverables.

EPA anticipates that the contractor's work will be judged "satisfactory" according to the QASP if TOCOR edits to deliverables are no more than ten percent (10%) of the content of any draft deliverable, or less than two percent (2%) of any final deliverable. In addition, EPA anticipates that the Contractor's work will be judged "satisfactory" according to the QASP if less than ten percent (10%) of the pages of written final deliverables contain TOCOR edits for such things as grammar, punctuation and format.

The TOCOR can upon request furnish a copy of the EPA correspondence manual for the Contractor's use.

Upon receipt of written technical direction from the TOCOR, the contractor shall furnish:

- All deliverables (draft and final) to EPA shall be furnished in an electronic version and in an electronic format that EPA can support (see TSAWP Contract PWS Section 4.0 Deliverables).

- All final deliverables to EPA shall include one (1) electronic copy and two (2) paper copies. All final deliverables shall be prepared according to EPA publication guidelines and shall be compliant with Section 508 of the **Americans with Disabilities Act**.

All submittals to EPA shall be formatted as described below.

Electronic submissions shall be made in the following manner: electronic Microsoft Word© for any written reports, summaries or analysis documents, Microsoft Excel© format for any and all spreadsheets, raw data, coding and modeling work (including all model runs with essential data to replicate model runs), and Microsoft Access© format for any and all databases or for other data as is approved by the EPA TOCOR in writing. Final electronic submissions shall be on Compact Disk (CD) or Digital Versatile Disc (DVD). The contractor may utilize an FTP, but only if the EPA TOCOR gives written permission. Every electronic document and all of the sections, text, graphs, charts or figures shall be unlocked, open and editable so that EPA may make further changes.

Unless specified otherwise by the TOCOR, final paper submissions shall be made in the following manner: two (2) separate and identical copies of all deliverables must be submitted; each separate copy includes all the products due at that date (i.e., Task 1, 2, etc.), and must be submitted in one (1) or more bound volumes, as appropriate, with a title page, an executive summary describing the purpose and content, and an index, located inside the front cover of each bound volume, and electronic copies enclosed in envelopes (or other suitable means) bound in the respective volume. Although PDF versions of materials may be additionally submitted per the contractor's prerogative, neither electronic nor paper PDF versions will be acceptable as any final work product.

Appropriate electronic format that is supported by EPA and printing of all GIS data layers, maps, photos, bench sheets and other written material not easily printed or saved in the above formats will be discussed and a format agreed upon with the EPA TOCOR prior to submittal by the Contractor.

When the Task Order reaches 30 calendar days prior to the end of the Period of Performance in a given period, the Contractor shall make a determination that the deliverables, milestones, benchmarks, and any outstanding technical direction from the TOCOR, will be satisfactorily completed in the form requested in the PWS by the end of the Period of Performance and for the remaining funding that is available.

If the Contractor determines one or more of the above-referenced items will not be able to be completed in the requested form within the period of performance and with the available funding, the Contractor shall notify the TOCOR and the CO immediately. Within 5 business days of said notification, the TOCOR in coordination with the CO will provide technical direction concerning use of the remaining funding to prepare and furnish to the TOCOR all interim draft deliverables, interim work products, and any working files in an electronic format which is supported by EPA, for eventual continuation of the project after the end date of the Task Order.

#### **QUALITY ASSURANCE PROJECT PLANS:**

EPA policy requires that an *approved* Quality Assurance Project Plan (QAPP) be in place before any work begins that involves the data collection and development of models. Where a project will require a QAPP, the Contractor shall prepare the QAPP in conformance with EPA's *Requirements for Quality Assurance Project Plans (EPA QA/R-5)*, and obtain EPA Region 10 approval for the QAPP. No activities requiring a QAPP shall begin without EPA approval of the QAPP.

#### **CONFERENCE/MEETING GUIDELINES AND LIMITATIONS:**

The EPA projects that none of the individual meetings identified in these tasks will exceed a total cost of \$20,000. The Contractor shall immediately notify the CO, PO and TOCOR of any anticipated individual event involving support for a meeting, conference, workshop, symposium, retreat, seminar or training that may potentially incur \$20,000 or more in cost during performance. Conference expenses are all direct and indirect costs paid by the government and include any associated authorized travel and per diem expenses, room charges for official business, audiovisual use, light refreshments, registration fees, ground transportation and other expenses as defined by the Federal Travel Regulations. All outlays for conference preparation should be included, but the federal employee time for conference preparation should not be included. After notifying EPA of the potential to reach this threshold, the Contractor shall not proceed with the task(s) until authorized to do so by the CO.

#### **REPORTING:**

All documentation and reporting under this TO shall be in compliance with contract requirements.

Additional requirements specific to this TO are as follows:

The Contractor's progress reports shall include, but not be limited to, the following items:

Contractor technical lead and status of funds allotted and spent for each project under the TO.

During the period of performance of this TO, the Contractor is expected to immediately inform the TOCOR by telephone of: (1) any problems that may impede the successful completion of the requested items of work; and (2) any corrective actions needed to solve the problem. The Contractor shall address and correct any problems identified by EPA within three days of EPA's written direction.

#### **ANTICIPATED TRAVEL:**

All travel under this Task Order shall be in compliance with contract requirements and only according to specific Technical Direction. (See contract clause H-17). For planning purposes, assume two 2- day meetings and/or watershed site visits during the base and each option period would be located in Seattle, Washington.

#### **CONTRACTOR IDENTIFICATION:**

The Contractor staff shall be required to identify themselves as contractors whenever their EPA work brings them in contact with the public (such as when they are providing technical information or conducting training and conferences). Contractor staff must always wear Contractor ID badges when interacting with the public. Contractor personnel are prohibited from acting as the Agency's official representative.

The Contractor shall refer any questions relating to the interpretation of EPA policy, guidance, or regulation to the TOCOR.

#### **MONITORING INFORMATION IN STORET AND FOLLOW-ON DATA SYSTEMS:**

Any ambient water quality, chemical, physical, biological, sediment, tissue, and ecological monitoring data collected as part of any this task order shall be entered into STORET or its follow-on data systems and be made available to the EPA in a compatible format. The Contractor shall use its own company name as the entity for data collected by the Contractor when entering its data. The Contractor shall report quality control of the data upload to the EPA.

#### **QUALITY ASSURANCE SURVEILLANCE PLAN:**

See contract requirements.

## **SECTION 508 CCOMPLIANCE**

All electronic and information technology (EIT) and all EIT deliverables be Section 508 compliant in accordance with the policies referenced at <http://www.epa.gov/accessibility/>. The Contractor shall include documentation which indicates that the contractor has tested the deliverable against applicable Section 508 Standards.

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>		1. CONTRACT ID CODE		PAGE OF PAGES 1 5	
2. AMENDMENT/MODIFICATION NO. P00001		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO. PR-R0-19-00294	
6. ISSUED BY CAD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001		7. ADMINISTERED BY (If other than Item 6) CODE		5. PROJECT NO. (If applicable)	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) TETRA TECH, INC. Attn: George Townsend 10306 EATON PL STE 340 FAIRFAX VA 22030		(x)		9A. AMENDMENT OF SOLICITATION NO.	
CODE 198549560		FACILITY CODE		9B. DATED (SEE ITEM 11)	
		x		10A. MODIFICATION OF CONTRACT/ORDER NO. EP-C-17-046 68HE0C18F0845	
				10B. DATED (SEE ITEM 13) 08/21/2018	

**11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS**

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended. ☐ is not extended.  
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning \_\_\_\_\_ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)  
See Schedule Net Increase: \$162,680.00

**13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.**

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
X	D. OTHER (Specify type of modification and authority) Unilateral - 1552.217-71; Option to Extend Term of the Contract; FAR 43.103(b); Administrative Changes

E. IMPORTANT: Contractor ☒ is not ☐ is required to sign this document and return \_\_\_\_\_ copies to the issuing office.


**14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)**

DUNS Number: 198549560

The purpose of this modification is to 1) Exercise Option Period 1; 2) Fully fund Option Period 1 at \$162,680.00 (b)(4) to cost and (b)(4) to fixed fee), as indicated in the attached recapitulation of funds; and 3) Revise contract clause 1552.217-71, Option Period 1 as: Estimated Cost: (b)(4) Fixed Fee: (b)(4) Total CPFF: \$162,680 to correct a clerical error. The current version of clause 1552.217-71 totaled Estimated Cost (b)(4) and Fixed Fee (b)(4) at \$163,681 (and not \$162,680).

TOCOR: Jayne Carlin Max Expire Date: 08/15/2020 Invoice Approver: Jayne Carlin Alt Invoice Continued ...

Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Lawrence Edelmann	
15B. CONTRACTOR/OFFEROR  (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA  (Signature of Contracting Officer)	16C. DATE SIGNED 06/03/2019

Previous edition unusable

CONTINUATION SHEET	REFERENCE NO. OF DOCUMENT BEING CONTINUED EP-C-17-046/68HE0C18F0845/P00001	PAGE	OF
		2	5

NAME OF OFFEROR OR CONTRACTOR  
TETRA TECH, INC.

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>App: Jayshika Ramrakha</p> <p>LIST OF CHANGES:</p> <p>Reason for Modification: Exercise an Option</p> <p>Total Amount for this Modification: \$0.00</p> <p>New Total Amount for this Version: \$162,680.00</p> <p>New Total Amount for this Award: \$321,471.00</p> <p>Obligated Amount for this Modification:</p> <p>\$162,681.00</p> <p>New Total Obligated Amount for this Award:</p> <p>\$321,472.00</p> <p>Buyer changed</p> <p>from Lisa Mitchell-Flinn</p> <p>to Lawrence Edelmann</p> <p>Contracting Officer changed</p> <p>from Angela Lower</p> <p>to Lawrence Edelmann</p> <p>CHANGES FOR LINE ITEM NUMBER: 2</p> <p>Obligated Amount for this Modification:</p> <p>\$162,681.00</p> <p>Exercised option</p> <p>NEW ACCOUNTING CODE ADDED:</p> <p>Account code:</p> <p>19-20-B-87FT-000BD4-2505-1987TE9008-001</p> <p>Beginning FiscalYear 19</p> <p>Ending Fiscal Year 20</p> <p>Fund (Appropriation) B</p> <p>Budget Organization 87FT</p> <p>Program (PRC) 000BD4</p> <p>Budget (BOC) 2505</p> <p>Job # (Site/Project)</p> <p>Cost Organization</p> <p>DCN-LineID 1987TE9008-001</p> <p>Quantity: 0</p> <p>Amount: \$162,681.00</p> <p>Percent: 0</p> <p>Subject To Funding: N</p> <p>Payment Address:</p> <p>Continued ...</p>				



## CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED  
EP-C-17-046/68HE0C18F0845/P00001

PAGE 3 OF 5

NAME OF OFFEROR OR CONTRACTOR  
TETRA TECH, INC.

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>Payment:</p> <p>RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711</p> <p>Period of Performance: 08/21/2018 to 08/15/2020</p> <p>All other terms and conditions shall remain unchanged.</p>				



**1552.217-71 OPTION TO EXTEND THE TERM OF THE CONTRACT-COST-TYPE  
CONTRACT (APR 1984)**

The Government has the option to extend the term of this contract for one (1) additional period(s). If more than 30 days remain in the contract period of performance, the Government, without prior written notification, may exercise this option by issuing a contract modification. To exercise this option within the last 30 days of the period of performance, the Government must provide to the Contractor written notification prior to that last 30-days of the period. This preliminary notification does not commit the Government to exercising the option. Use of an option will result in the following contract modifications:

(a) The "Period of Performance" clause will be amended to cover a base period and option periods:

	Period Start Date	End Date
Base Period	Award	– 08/15/2019
Option Period 1	08/16/2019	– 08/15/2020

(b) Paragraph (a) of the "Level of Effort" clause will be amended to reflect a new and separate level of effort of:

Period	Level of Effort
Base Period	1500
Option Period 1	1500

(c) The "Estimated Cost and Fixed Fee" clause will be amended to reflect increased estimated costs and fixed fee for each option period as follows:

Period	Estimated Cost	Fixed Fee	Total CPFF
Option Period 1	(b)(4)	(b)(4)	\$162,680

(d) If the contract contains "not to exceed amounts" for elements of other direct costs (ODC), those amounts will be increased as follows: N/A

**LOCAL CLAUSES EPA-B-16-102 ESTIMATED COST AND FIXED FEE**

Base Period

(a) The estimated cost of this contract is (b)(4)

(b) The fixed fee (b)(4)

(c) The total estimated cost and fixed fee is **\$162,680.00**

**LOCAL CLAUSES EPA-B-32-101 LIMITATION OF FUNDS NOTICE**

(a) Pursuant to the Limitation of Funds clause, incremental funding in the amount of (b)(4) is allotted to cover estimated cost. Funding in the amount of (b)(4) is provided to cover the corresponding increment of base fee. The amount allotted for costs is estimated to cover the contractor's performance through **\$162,680.00**.

(b) When the contract is fully funded (i.e. the sum of the total estimated cost, base fee, award fee pool available for award, and award fee awarded, as set forth in the schedule of this contract), the Limitation of Cost clause shall become applicable.

(c) Recapitulation of Funds

Option Period 1 - (08/16/2019 to 08/15/2020)			
	Estimated Cost	Fixed Fee	Cost Plus Fixed Fee
Task Order Award (Base Period)	(b)(4)	(b)(4)	\$162,680.00
Total Funded			\$162,680.00
Total Task Order			\$162,680.00
Balance Unfunded			\$0.00

**LOCAL CLAUSE EPA-G-42-101 CONTRACT ADMINISTRATION REPRESENTATIVES**

Task Order Contracting Officers Representatives (CORs)/Project Officers for this contract are as follows:

Task Order COR (TOCOR): Jayne Carlin, 1200 6<sup>th</sup> Avenue MS: OWW-192 Seattle WA 98101  
[carlin.jayne@epa.gov](mailto:carlin.jayne@epa.gov) PH 206-553-8512

Alternate Task Order COR (Alt TOCOR): Jayshika Ramrakha, 1200 6<sup>th</sup> Avenue MS: OWW-192 Seattle WA 98101  
[ramrakha.jayshika@epa.gov](mailto:ramrakha.jayshika@epa.gov) PH 206-553-1788

Contracting Officials responsible for administering this contract are as follows:

Contracting Officer: Lawrence Edelman, US EPA. Cincinnati Procurement Operations Division, 26 W MLK Dr  
MS W136A, Cincinnati, Ohio 45268 [edelman.lawrence@epa.gov](mailto:edelman.lawrence@epa.gov)